

**SYSTEM AND METHOD FOR PROVIDING HIGH DEFINITION MATERIAL
ON A STANDARD DEFINITION COMPATIBLE MEDIUM**

ABSTRACT OF THE INVENTION

A system and method for recording and reconstructing a high definition video on

- 5 a standard definition DVD. A recording system is provided that comprises: a system for scaling down an HD video to an SD video format; a system for encoding the SD video; a system for extracting enhancement information from the HD video; and a system for storing the SD video and the extracted enhancement information onto the SD compatible medium. A playback system is provided for reconstructing the HD video image from the
- 10 standard definition SD format recording, comprising: a system for extracting and decoding SD data from the recording; a system for extracting enhancement information from the recording; a system for de-interlacing the decoded SD data; and a system for up-scaling and post-processing the decoded SD data with the enhancement information to generate the HD video image.